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Polypropylene film for packaging having low temp. impact strength - contains plasticiser and opt. elastomer and linear low density polyethylene

Patent Assignee: TOYOBO KK

Patent Family

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
JP 2080445	A	19900320	JP 88232994	A	19880916	199018	B
JP 2730079	B2	19980325	JP 88232994	A	19880916	199817	

Priority Applications (Number Kind Date): JP 88232994 A (19880916)

Patent Details

Patent	Kind	Language	Page	Main IPC	Filing Notes
JP 2080445	A		6		
JP 2730079	B2		4	C08L-023/10	Previous Publ. patent JP 2080445

Abstract:

JP 2080445 A

Film comprises polypropylene polymer(a), 0.2-5 wt.% plasticiser(b) and opt., i) 3-20 wt.% elastomer(c) or (ii) 3-20 wt.% elastomer(c) and 5-20 wt.% linear low density polyethylene.

Pref. (a) is a homopolymer of propylene, propylene-ethylene(content less than 10 wt.%) random or block copolymer or propylene-ethylene(content less than 10 wt.%) - butene(content less than 10 wt.%) random copolymer. (b) is diisononyl adipate, butyl stearate or epoxidised octylstearate. (c) is ethylene-alpha-olefin copolymer or propylene-alpha-olefin copolymer.

USE/ADVANTAGE - Used as packaging film for food, garments, medical supplies etc. It has good impact strength at low temp. without decreasing heat blocking resistance and sealing strength. (6pp Dwg.No.0/0)

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Porous film or sheet mfr. for disposable nappy, etc. - by inflation moulding compsn. contg. polyolefin resin, filler and plasticiser.

Patent Assignee: MITSUBISHI CHEM CORP

Patent Family

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
JP 7216120	A	19950815	JP 9410397	A	19940201	199541	B
JP 3325377	B2	20020917	JP 9410397	A	19940201	200268	

Priority Applications (Number Kind Date): JP 9410397 A (19940201)

Patent Details

Patent	Kind	Language	Page	Main IPC	Filing Notes
JP 7216120	A		8	C08J-009/00	
JP 3325377	B2		8	C08J-009/00	Previous Publ. patent JP 7216120

Abstract:

JP 7216120 A

A porous film or sheet is obtd. by inflation moulding a compsn. consisting of 100 pts.wt. of polyolefin resin (A) of density less than 0.930 g/cm² and melt index less than 2 g/10 mins., 100-400 pts.wt. of filler (B), 0.1-100 pts.wt. of plasticiser (C) of formula A-(R)_n (I) (A = tetravalent or higher carboxylic acid radical or alcohol radical; R = aliphatic carboxylic acid radical or aliphatic alcohol radical; and n = 4 or more) and 0.0001-0.1 pt.wt. of radical generating agent (D), then stretching resulting film or sheet uniaxially in the receiving direction. Also claimed is a method of making the porous film or sheet.

Pref. (A) is low density polyethylene, ethylene-vinyl acetate copolymer, polypropylene or ethylene-propylene copolymer. (B) is e.g. calcium carbonate, talc, silica or cellulose type powder such as wooden powder. (C) is ester cpd. of formula (I) made from pyromellitic acid, dipentaerythritol, acetic acid, methyl alcohol, etc.

USE - The porous film is useful for e.g. disposable diaper, raincoat or disposable sheet.

ADVANTAGE - The porous film has good tear strength and tensile breaking point strength. It exhibits little unevenness by stretching.

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